



# MATERIAL SAFETY DATA SHEET

## Rohm and Haas Company

195212



### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### RHOPLEX® B-10 Emulsion

Product Code : 65263  
Key : 905316-9

MSDS Date : 01/06/99

#### COMPANY IDENTIFICATION

ROHM AND HAAS COMPANY  
100 INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19106-2399

#### EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY : 215-592-3000  
SPILL EMERGENCY : 215-592-3000  
CHEMTREC : 800-424-9300

RHOPLEX® is a trademark of Rohm and Haas Company or one of its subsidiaries or affiliates

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

No		CAS REG NO	WEIGHT (%)
1	Acrylic polymer .....	Not Hazardous	45-47
2	Residual monomers .....	Not Required	<0.05
3	Formaldehyde .....	50-00-0	0.09 MAX
4	Water .....	7732-18-5	53-55

See Section 8, Exposure Controls / Personal Protection

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure

Inhalation  
Eye Contact  
Skin Contact

#### Inhalation

Inhalation of vapor or mist can cause the following:  
- headache - nausea - irritation of nose, throat, and lungs

#### Eye Contact

Direct contact with material can cause the following:  
- slight irritation

#### Skin Contact

Prolonged or repeated skin contact can cause the following:  
- slight skin irritation



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#### **4. FIRST AID MEASURES**

##### **Inhalation**

Move subject to fresh air.

##### **Eye Contact**

Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

##### **Skin Contact**

Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

##### **Ingestion**

If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

#### **5. FIRE FIGHTING MEASURES**

Flash Point .....	Noncombustible
Auto-ignition Temperature .....	Not Applicable
Lower Explosive Limit .....	Not Applicable
Upper Explosive Limit .....	Not Applicable

##### **Unusual Hazards**

Material can splatter above 100C/212F. Dried product can burn.

##### **Extinguishing Agents**

Use extinguishing media appropriate for surrounding fire.

##### **Personal Protective Equipment**

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **Personal Protection**

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.



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## Procedures

Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

### Storage Conditions

Keep from freezing; material may coagulate. The minimum recommended storage temperature for this material is 1C/34F. The maximum recommended storage temperature for this material is 49C/120F.

### Handling Procedures

Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limit Information

No		CAS REG NO	WEIGHT (%)
1	Acrylic polymer .....	Not Hazardous	45-47
2	Residual monomers .....	Not Required	<0.05
3	Formaldehyde .....	50-00-0	0.09 MAX
4	Water .....	7732-18-5	53-55

Comp. No.	Units	ROHM AND HAAS		OSHA		ACGIH	
		TWA	STEL	TWA	STEL	TWA	STEL
1		None	None	None	None	None	None
2		a	a	a	a	a	a
3	ppm	0.3 b	None	0.75 c	2 c	0.3 b	None
4		None	None	None	None	None	None

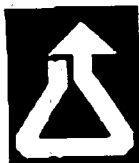
a Not Required

b Ceiling

c OSHA Specifically Regulated

### Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in 'Exposure Limit Information'. For airborne concentrations up to 10 times the TWATLV's listed in 'Exposure Limit Information', wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with MSHA/NIOSH approved cartridges for protection against formaldehyde and filters for protection against dusts and mists.



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### Eye Protection

Use chemical splash goggles (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

### Hand Protection

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:  
- Neoprene

### Engineering Controls (Ventilation)

Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

### Other Protective Equipment

Facilities storing or utilizing this material should be equipped with an eyewash facility.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance .....	Milky
Color .....	White
State .....	Liquid
Odor Characteristic .....	Acrylic odor
pH .....	5.5 to 6.5
Viscosity .....	100 to 140 CPS
Specific Gravity (Water = 1) .....	1.0 to 1.2
Vapor Density (Air = 1) .....	< 1 Water
Vapor Pressure .....	17 mm Hg @ 20°C/68°F Water
Melting Point .....	0°C/32°F Water
Boiling Point .....	100°C/212°F Water
Solubility in Water .....	Dilutable
Percent Volatility .....	53 to 55 % Water
Evaporation Rate (BAc = 1) .....	< 1 Water

See Section 5, Fire Fighting Measures

## 10. STABILITY AND REACTIVITY

### Instability

This material is considered stable. However, avoid temperatures above 177°C/350°F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

### Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomers.



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### Hazardous Polymerization

Product will not undergo polymerization.

### Incompatibility

There are no known materials which are incompatible with this product.

## 11. TOXICOLOGICAL INFORMATION

### Acute Data

No toxicity data are available for this material.

The information shown in SECTION 3, Hazards Identification, is based on the toxicity profiles for a number of acrylic emulsions that are compositionally similar to this product. Typical data are:

Oral LD50 - rat: >5000 mg/kg

Dermal LD50 - rabbit: >5000 mg/kg

Skin irritation - rabbit: practically non-irritating

Eye irritation - rabbit: inconsequential irritation

## 12. ECOLOGICAL INFORMATION

No Applicable Data

## 13. DISPOSAL CONSIDERATIONS

### Procedure

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer.

Landfill or incinerate remaining solids in accordance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

US DOT Hazard Class ..... NONREGULATED

## 15. REGULATORY INFORMATION

### Workplace Classification

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

This product is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).



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### SARA TITLE 3: Section 311/312 Categorizations (40CFR 370)

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

### SARA TITLE 3: Section 313 Information (40CFR 372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

### CERCLA Information (40CFR 302.4)

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

### Waste Classification

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

### United States

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

### Pennsylvania

Any material listed as -Not Hazardous- in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

The following chemicals are listed because of the additional requirements of Pennsylvania law:

- Ethyl acrylate (140-88-5)

### California (Proposition 65)

This product contains trace levels of a component or components known to the state of California to cause cancer:

- Ethyl acrylate (140-88-5)

This product contains a component or components known to the state of California to cause cancer:

- Formaldehyde (gas) (50-00-0)



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**16. OTHER INFORMATION**

Rohm and Haas Hazard Rating		Scale
Toxicity	1	4=EXTREME
Fire	0	3=HIGH
Reactivity	0	2=MODERATE
Special	-	1=SLIGHT 0=INSIGNIFICANT

Ratings are based on Rohm and Haas guidelines,  
and are intended for internal use.

**HMIS Hazard Ratings**

HMIS Hazard Ratings: HEALTH = 1, FLAMMIBILITY = 0, REACTIVITY = 0.

PERSONAL PROTECTION: See Section 8, Exposure

Controls/Personal Protection for recommended  
handling of material as supplied; check with  
supervisor for your actual use condition.

Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Severe

\* = Chronic Effects (See Section 3, Hazards Identification)

**ABBREVIATIONS:**

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value

PEL = Permissible Exposure Limit

TWA = Time Weighted Average

STEL = Short-Term Exposure Limit

BAC = Butyl acetate

Bar denotes a revision from previous MSDS in this area.

The information contained herein relates only to the specific material identified. Rohm and Haas Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Rohm and Haas Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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ROHM AND HAAS  
CANADA INC.

FAXED

**Date** December 9, 1999**Number of pages including cover sheet** 8**FAX****TO:** Mike Ferriola  
US EPA**Phone****Fax Phone** (732) 321-4342 41625**FROM:** Mary-Anne Boyes  
Performance Polymers**Phone** (416) 287-4449**Fax Phone** (416) 284-4584**COMMENTS:**

Mike,

As promised, here is the MSDS for Rhoplex B-10.

Hope it helps!

Mary-Anne Boyes  
Administrative Assistant  
Performance Polymers - Coatings